

TO: ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES & SERVICE CENTERS
ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES REPRESENTATIVES

MODELS AFFECTED: MA-312

SERVICE MANUAL CHANGES:

Replace Page ii and add Pages 80, 81, and 82 in the Digital
Tone Remote System Service Manual (0300-4280-100).

TECHNICAL SERVICE DEPARTMENT
REGENCY COMMUNICATIONS, INC.

SECTION 4 4-27 MA-312 Chassis/PC Board
Connections

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6-4 Installation Instructions for TG-100-R

I. Items Needed:

- A. MA-312
- B. TG-100
- C. Adapter Board
- D. Wire Kit

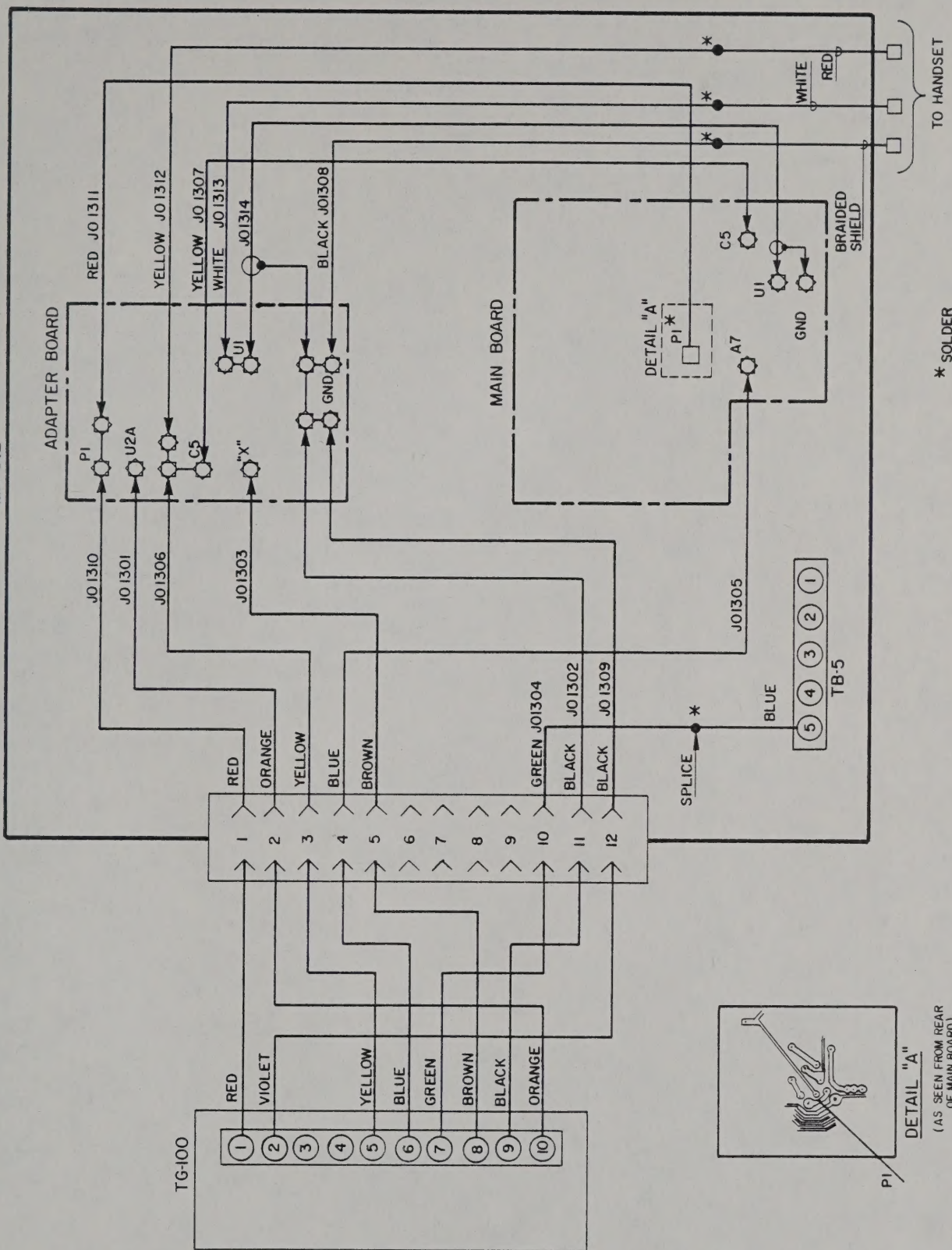
II. Procedure

- A. Remove faceplate from MA-312.
- B. Remove wrap from MA-312.
- C. Remove Clock Assembly.
- D. Remove four (4) mounting screws from main board and tilt the top up as much as wire harness underneath will allow.
- E. Insert wires from wire kit into the following positions in the 12-pin accessory plug mounted on the rear of the chassis:
 - J01310 Red - Pin 1
 - J01301 Orange - Pin 2
 - J01306 Yellow - Pin 3
 - J01305 Blue - Pin 4
 - J01303 Brown - Pin 5
 - J01304 Green - Pin 10
 - J01302 Black - Pin 11
 - J01309 Black - Pin 12
- F. Plug free end of these leads onto adapter board as follows:
 - J01302 - Black wire - Gnd
 - J01309 - Black wire - Gnd
 - J01306 - Yellow wire - C5
 - J01301 - Orange wire - U1A
 - J01303 - Brown wire - "X" (unmarked)
 - J01310 - Red wire - P1
- G. Plug one end of 6" shielded cable (J01314) to "Gnd" and "U1" pins on adapter board.
- H. Unplug white wire and braided shield wire that come from handset to the pins on back of MA-312 main board.
- I. Plug the free end of J01314 (cable referred to in Step "G") onto the recently vacated pins on back of MA-312 main board. (Pins referred to in Step "H".)
- J. Plug J01311, red wire, onto "P1" pin of adapter board. Solder other end to back of MA-312 main board at point indicated in detail "A."
- K. Cut connectors off white wire and braided shield wire coming from handset (referred to in Step "H") and perform in-line splice using pieces of shrink tubing supplied in kit - white wire to J01313; braided wire to J01308.

- L. Plug other end of J01313 to "U1" pin on adapter board and other end of J01308 to "Gnd" pin on adapter board.
- M. Unplug blue wire from back of MA-312 main board and cut pin off end of wire. Perform in-line splice with green wire coming from Pin 10 of 12-pin connector (J01304). Use shrink tubing supplied with wire kit.
- N. Plug blue wire coming from Pin 4 of 12-pin connector (J01305) onto the recently vacated A7 pin on back of main board (referred to in Step "M").
- O. Unplug and cut connector off red wire coming from handset. Solder one end of yellow wire (J01312) to this red wire using shrink tubing supplied in kit. Plug other end of this wire (J01312) onto "C5" pin of adapter board.
- P. Plug one end of yellow wire (J01307) onto pin recently vacated on back of main board (referred to in Step "O"). Plug other end onto "C5" pin on adapter board.
- Q. Mount adapter board in option board slot, facing forward with two #4 hex sheetmetal screws. Be careful that all leads are dressed neatly and not stretched or pinched.
- R. Replace main board, clock board.
- S. Replace wrap and faceplate.
- T. Connect multi-conductor cable to terminals in back of TG-100 as follows:

Red	- Pin 1
Violet	- Pin 2
Yellow	- Pin 5
Blue	- Pin 6
Green	- Pin 7
Brown	- Pin 8
Black	- Pin 9
Orange	- Pin 10

MA 312



WIRING DIAGRAM/INSTALLATION
INSTRUCTION TG100-R

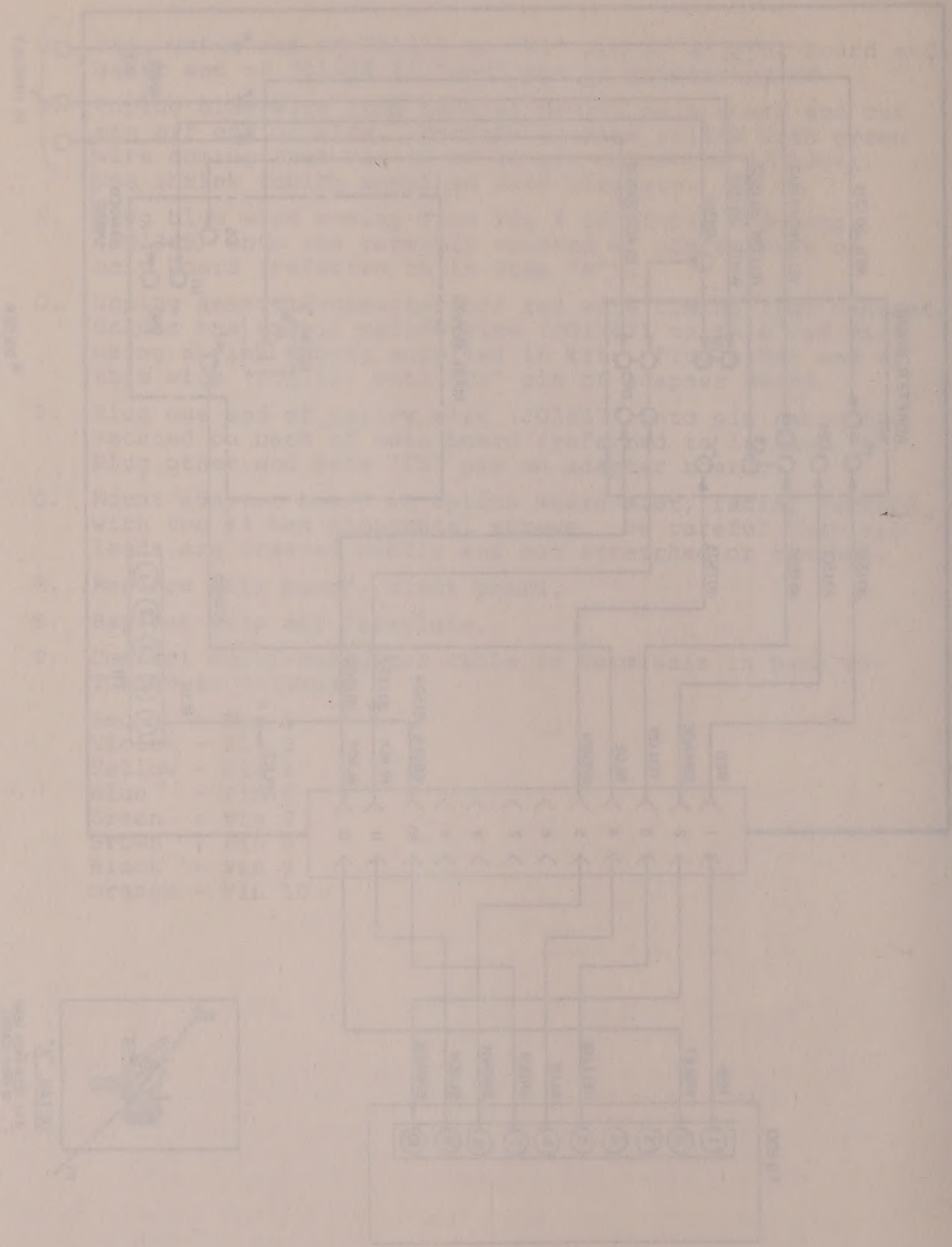


FIGURE 1
DIGITAL SYSTEM ARCHITECTURE